|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | PCSrc[2:0] | RegDst[1:0] | RegWr | ALUSrc1 | ALUSrc2 | ALUFun | Sign | MemWr | MemRd | MemtoReg[1:0] | EXTOp | LUOp |
| 0/0 | Nop(sll) | 0 | X | 1 | x | x | 100000 | 1 | 0 | 0 | X | X | X |
| 23 | Lw | 0 | 1 | 1 | 0 | 1 | 000000 | 1 | 0 | 1 | 1 | 1 | 0 |
| 2b | Sw | 0 | 1 | 0 | 0 | 1 | 000000 | 1 | 1 | 0 | x | 1 | 0 |
| 0f | Lui | 0 | 1 | 1 | 0 | 1 | 000000 | 1 | 0 | 0 | 0 | X | 1 |
| 0/20 | Add | 0 | 0 | 1 | 0 | 0 | 000000 | 1 | 0 | 0 | 0 | X | X |
| 0/21 | Addu | 0 | 0 | 1 | 0 | 0 | 000000 | 0 | 0 | 0 | 0 | X | X |
| 0/22 | Sub | 0 | 0 | 1 | 0 | 0 | 000001 | 1 | 0 | 0 | 0 | X | X |
| 0/23 | Subu | 0 | 0 | 1 | 0 | 0 | 000001 | 0 | 0 | 0 | 0 | X | X |
| 08 | Addi | 0 | 1 | 1 | 0 | 1 | 000000 | 1 | 0 | 0 | 0 | 1 | 0 |
| 09 | Addiu | 0 | 1 | 1 | 0 | 1 | 000000 | 0 | 0 | 0 | 0 | 1 | 0 |
| 0/24 | And | 0 | 0 | 1 | 0 | 0 | 011000 | 1 | 0 | 0 | 0 | X | X |
| 0/25 | Or | 0 | 0 | 1 | 0 | 0 | 011110 | 1 | 0 | 0 | 0 | X | X |
| 0/26 | Xor | 0 | 0 | 1 | 0 | 0 | 010110 | 1 | 0 | 0 | 0 | X | X |
| 0/27 | Nor | 0 | 0 | 1 | 0 | 0 | 010001 | 1 | 0 | 0 | 0 | X | X |
| 0c | Andi | 0 | 1 | 1 | 0 | 1 | 011000 | 1 | 0 | 0 | 0 | 0 | 0 |
| 0/0 | Sll | 0 | 0 | 1 | 1 | 0 | 100000 | 1 | 0 | 0 | 0 | X | X |
| 0/02 | Srl | 0 | 0 | 1 | 1 | 0 | 100001 | 1 | 0 | 0 | 0 | X | X |
| 0/03 | Sra | 0 | 0 | 1 | 1 | 0 | 100011 | 1 | 0 | 0 | 0 | X | x |
| 0/2a | Slt | 0 | 0 | 1 | 0 | 0 | 110101 | 1 | 0 | 0 | 0 | X | X |
| 0a | Slti | 0 | 1 | 1 | 0 | 1 | 110101 | 1 | 0 | 0 | 0 | 1 | 0 |
| 0b | Sltiu | 0 | 1 | 1 | 0 | 1 | 110101 | 0 | 0 | 0 | 0 | 1 | 0 |
| 04 | Beq | 1 | X | 0 | 0 | 0 | 110011 | 1 | 0 | 0 | X | 1 | 0 |
| 05 | Bne | 1 | X | 0 | 0 | 0 | 110001 | 1 | 0 | 0 | X | 1 | 0 |
| 06 | Blez | 1 | X | 0 | 0 | 0 | 111101 | 1 | 0 | 0 | X | 1 | 0 |
| 07 | Bgtz | 1 | X | 0 | 0 | 0 | 111111 | 1 | 0 | 0 | X | 1 | 0 |
| 01 | Bltz | 1 | X | 0 | 0 | 0 | 111011 | 1 | 0 | 0 | X | 1 | 0 |
| 02 | J | 2 | X | 0 | X | X | Xxxxxx | X | 0 | 0 | X | X | X |
| 03 | Jal | 2 | 2 | 1 | X | X | Xxxxxx | X | 0 | 0 | 2 | X | X |
| 0/08 | Jr | 3 | X | 0 | X | X | Xxxxxx | X | 0 | 0 | X | X | X |
| 0/09 | jalr | 3 | 1 | 1 | x | x | xxxxxx | X | 0 | 0 | 2 | X | X |
|  |  |  |  |  |  |  |  |  |  | 0 |  |  |  |

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